

# Belzona repairs and protects a concrete pump volute on a water cooling system

ID: 7897

Industry: Power

Customer Location: France

Application: WPA-Wall Problem Areas

Application Date: September 2011

Substrate: Concrete

Products: \* Belzona 4111 (Magma Quartz) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

## Problem

The pump volute presented cracks and wear and needed to be rebuilt before it would propagate.



## Photograph Descriptions

- \* 1- After the surface preparation, conditioner application ,
- \* 2- Application of Belzona 4111 ,
- \* 3- Final application ,

## Application Situation

Concrete inside a pump circulating cooling water to a nuclear power plant.

## Application Method

Application was carried out with an adapted version of Belzona System Leaflet FPA-01. After the surface preparation, the conditioner was applied and Belzona 4111 was used to rebuild the damaged area especially around the cutwater and all around the volute. Then, Belzona 1321 was used to protect the walls against erosion/corrosion.

## Belzona Facts

The 2 volutes were repaired during the expected shutdown period of the equipment which means that it did not impact the production.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

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EMS 695213

Management System.

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